

Workshop Report on The Role of Optical Systems and Devices for Security

Panel Chair

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This panel will feature attendees of an invited workshop sponsored by The Defense Advanced Research Agency, The National Science Foundation, and The U.S. Air Force. The workshop was held at the Institute For Defense Analyses on February 26-28, 1996. The intent of this panel is to broaden the awareness of the security issues and potential for solutions using optical technology as they were discussed during the workshop.

The successful development of optoelectronic processors for security, verification, and anti-counterfeiting will impact many important government and civil sector enterprises. Because of this field's technical promise, research and development has been intensifying in many academic, government, and industrial laboratories. The goals of this workshop were to discuss various security and anti-counterfeiting topics within the context of optical technology, including major long and short term goals of the optics field and to provide a strategy for addressing R&D in support of the security needs of government and industrial users of this technology.

The report of this workshop will be published. By providing the findings of workshop, this report seeks to fill an information gap on how research in the field of optical systems and devices for security and anticounterfeiting could be maximized to the benefit of Government and industry users.

The panel reporting on this workshop will address security and vulnerabilities in all-optical networks, discuss the use of optics for information encoding, introduce some of the variety of applications that might take advantage of optical technology, and provide a summary of the workshop findings with respect to a research strategy.

The Panelists are:

Muriel Medard, MIT Lincoln Laboratory
Jeff Ingles, National Security Agency
Mark Krawczewicz, National Security Agency
Bahram Javidi, University of Connecticut